

**Claims**

1. An extension device for delivering a digital broadcast to a mobile terminal, the device comprising:  
5        means for receiving a signal carrying the digital broadcast received via an antenna; and  
         a loop or coil configured to couple inductively with a corresponding loop or coil included in the mobile terminal so as to transmit the signal to the mobile terminal.
- 10    2. An extension device according to claim 1, further comprising:  
         means for amplifying the signal.
3. A device according to claim 2, wherein:  
         said amplifying means is powered by the mobile terminal.
- 15    4. A device according to claim 2 or 3, wherein:  
         said amplifying means is controlled by the mobile terminal.
5. A device according to claim 4, wherein:  
20        said amplifying means intermittently operates under the control of the mobile terminal.
6. A device according to any one of claims 2 to 5, comprising:  
         means for detecting a position of the mobile terminal; and  
25        means for controlling operation of said amplifying means in dependence upon the position of the mobile terminal.
7. A device according to claim 6, wherein:  
         said detecting device comprises a switch to determine whether the mobile  
30        terminal is attached to the extension device.

8. A device according to claim 6, wherein:  
said detecting device comprises means for sensing whether the mobile terminal is located within a predetermined distance of the extension device.
- 5 9. A device according to any one of claims 6 to 8, wherein:  
said controlling means causes said amplifying means to reduce gain when the mobile terminal is in a given position.
- 10 10. A device according to any one of claims 6 to 8, wherein:  
said controlling means causes said amplifying means to be by-passed when the mobile terminal is in a given position.
11. A device according to any one of claims 6 to 8, comprising:  
an antenna for receiving an amplified signal from the amplifying means and  
15 radiatively transmitting the amplified signal to the mobile terminal; wherein  
said controlling means causes the signal to be routed to the loop or coil when the mobile terminal is in a given position and to be routed to the amplifying means when not.
- 20 12. A device according to any preceding claim, further comprising:  
means for filtering said signal from at least one other signal.
13. A device according to any preceding claim, comprising:  
means for receiving power from an external source; and  
25 means for delivering power to the mobile terminal to permit recharging of a rechargeable battery included in the mobile terminal.
14. A device according to any preceding claim, wherein the loop or coil is a loop and the loop is arranged substantially around a perimeter of a face of the device.
- 30 15. A device according to any preceding claim, wherein the loop or coil has an area of between 10 and 50 cm<sup>2</sup>.

16. A device according to any preceding claim which is adapted to be placed on a piece of furniture.

17. A device according to any preceding claim, further comprising:

5        an antenna mounted on a roof or to an externally facing side of an external wall of a building.

18. An extension device for delivering a digital broadcast to a mobile terminal, the device comprising:

10        an input for receiving a signal carrying the digital broadcast received via an antenna; and

         a loop or coil configured to couple inductively with a corresponding loop or coil included in the mobile terminal so as to transmit the signal to the mobile terminal.

15        19. Apparatus for receiving a time-sliced digital broadcast comprising:

         an extension device according to any preceding claim; and

         a mobile terminal including a loop or coil for receiving the signal from the extension device.

20        20. Apparatus according to claim 19, wherein the mobile terminal causes said amplifying means to operate when reception of a time slice is expected.

21. A method of delivering a digital broadcast to a mobile terminal, the method comprising:

25        receiving a signal carrying a digital broadcast; and

         providing said signal to a loop or coil configured to couple inductively with a corresponding loop or coil included in the mobile terminal so as to transmit the signal to the mobile terminal.